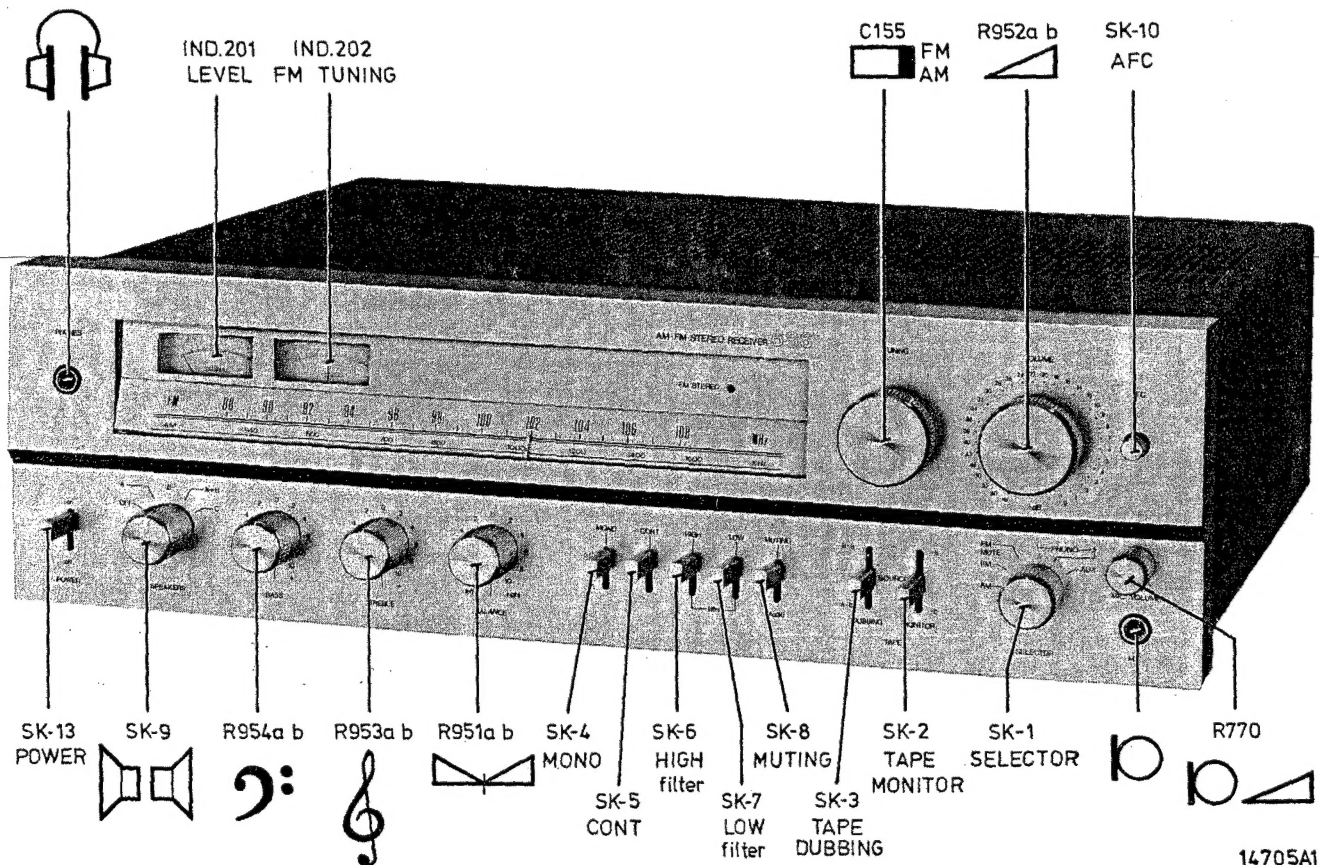


Service
Service
Service

Service Manual



14705A12



DK

TEKNISKE DATA

- Udgangseffekt : 2x60 W (8 Ω) $d \leq 0,1 \%$
- Effektbåndbredde ($d \leq 0,3 \%$) : 7-50.000 Hz
- Harmonisk forvrængning ved 50 W (8 Ω) : 0,05 %
- Intermodulation (IHF 60-7000 Hz 4:1) ved 30 W (8 Ω) : 0,05 %
- Frekvensområde : 20-20.000 Hz
- Stereo separation
 - 1 kHz : 55 dB
 - 10 kHz : 45 dB
- Signal/støjforhold
 - Phono 1,2 : 65 dB
 - Aux, tuner : 85 dB
- Udgangsimpedans
 - Højttaler : 4-16 Ω
 - Hovedtelefoner : 8 Ω

N

TEKNISKE DATA

- Udgangseffekt : 2x60 W (8 Ω) $d \leq 0,1 \%$
- Effektbåndbredde $d \leq 0,3 \%$: 7-50.000 Hz
- Harmonisk forvrængning ved 50 W (8 Ω) : 0,05 %
- Intermodulasjon (IHF 60-7000 Hz 4:1) ved 30 W (8 Ω) : 0,05 %
- Frekvensområde : 20-20.000 Hz
- Stereoseparasjon
 - 1 kHz : 55 dB
 - 10 kHz : 45 dB
- Signal/støyt-forhold
 - Phono 1,2 : 65 dB
 - Aux, Tuner : 85 dB
- Udgangsimpedans
 - Højttaler : 4-16 Ω
 - Hovedtelefoner : 8 Ω

SF

TEKNISET TIEDOT

- Lähtöteho : 2x60 W (8 Ω) $d \leq 0,1 \%$
- Tehokaista $d \leq 0,3 \%$: 7-50.000 Hz
- Harmoninen särö 50 W (8 Ω) : 0,05 %
- Keskeismodulaatio (IHF 60-7000 Hz 4:1) 30 W (8 Ω) : 0,05 %
- Toistoalue : 20-20.000 Hz
- Kanavaerotus
 - 1 kHz : 55 dB
 - 10 kHz : 45 dB
- Signaalikohinasuhde
 - Phono 1,2 : 65 dB
 - Aux, Tuner : 85 dB
- Lähtöimpedanssi
 - Kaiutin : 4-16 Ω
 - Kuulokkeet : 8 Ω

FM-del

- Bølgeområder : 87,5-108 MHz
- Følsomhed : 0,85 μ V (IHF)
- Fangforhold : 1,5 dB
- Selektivitet : 70 dB
- Signal/støjforhold : 70 dB
- AM-undertrykkelse : 60 dB
- MF-undertrykkelse : 90 dB
- MF : 10,7 MHz

AM-del

- Bølgeområder MB : 520-1605 kHz (577-187 m)
- Følsomhed : 60 μ V for 26 dB signal/støjforhold
- Selektivitet : 35 dB
- MF-undertrykkelse : 60 dB
- MF /00 : 452 kHz
- /22/72 : 460 kHz
- /15/29/79 : 468 kHz
- Dimensioner : 480x150x380 mm

FM-radiodel

- Bølgeområder : 87,5-108 MHz
- Følsomhet : 0,85 μ V (IHF)
- Capture ratio : 1,5 dB
- Selektivitet : 70 dB
- Signal/støyt-forhold : 70 dB
- AM undertrykking : 60 dB
- MF-undertrykking : 90 dB
- MF : 10,7 MHz

AM radiodel

- Bølgeområder MB : 520-1605 kHz (577-187 m)
- Følsomhet : 60 μ V for 26 dB S/N
- Selektivitet : 35 dB
- MF undertrykking : 60 dB
- MF /00 : 452 kHz
- /22/72 : 460 kHz
- /15/29/79 : 468 kHz
- Dimensjoner : 480x150x380 mm

FM-viritin

- Aaltoalue : 87,5-108 MHz
- Herkkyyys : 0,85 μ V (IHF)
- Vastaanottosuhte : 1,5 dB
- Valintakyky : 70 dB
- Signaalikohinasuhde : 70 dB
- AM-vaimennus : 60 dB
- Vältäajuvaimennus : 90 dB
- VT : 10,7 MHz

AM-viritin

- Aaltoalue : 520-1605 kHz (577-187 m)
- Herkkyyys : 60 μ V 26 dB:n signaali-kohinasuhteella
- Valintakyky : 35 dB
- Vältäajuvaimennus : 60 dB
- VT /00 : 452 kHz
- /22/72 : 460 kHz
- /15/29/79 : 468 kHz
- Mitat : 480x150x380 mm

D. TECHNISCHE DATEN

- Ausgangsleistung : 2x60 W (8 Ω) $d \leq 0,1\%$
- Leistungsbandbreite
 $d \leq 0,3\%$: 7-50.000 Hz
- Klirrgrad bei 50 W (8 Ω) : 0,05 %
- Intermodulationsgrad (IHF
60-7000 Hz 4:1) bei 30 W
(8 Ω) : 0,05 %
- Übertragungsbereich : 20-20.000 Hz
- Übersprechdämpfung
1 kHz : 55 dB
10 kHz : 45 dB
- S/R-Verhältnis
Phono 1,2 : 65 dB
Aux, Tuner : 85 dB
- Ausgangsimpedanz
Lautsprecher : 4-16 Ω
Kopfhörer : 8 Ω

FM-Empfänger

- Wellenbereich : 87,5-108 MHz
- Empfindlichkeit : 0,85 μ V (IHF)
- Gleichwellenunterdrückung : 1,5 dB
- Selektivität : 70 dB
- S/R-Verhältnis : 70 dB
- AM-Unterdrückung : 60 dB
- ZF-Unterdrückung : 90 dB
- ZF : 10,7 MHz

AM-Empfänger

- Wellenbereich MW : 520-1605 kHz (577-187m)
- Empfindlichkeit : 60 μ V bei 26 dB S/R
- Selektivität : 35 dB
- ZF-Unterdrückung : 60 dB
- ZF /00 : 452 kHz
/22/72 : 460 kHz
/15/29/79 : 468 kHz
- Abmessungen : 480x150x380 mm

I. DATA TECNICI

- Potenza d'uscita : 2x60 W (8 Ω) $d \leq 0,1\%$
- Banda di potenza $d \leq 0,3\%$: 7-50.000 Hz
- Distorsione armonica a
50 W (8 Ω) : 0,05 %
- Intermodulazione (IHF
60-7000 Hz 4:1) a
30 W (8 Ω) : 0,05 %
- Risposta in frequenza : 20-20.000 Hz
- Separazione stereo
1 kHz : 55 dB
10 kHz : 45 dB
- Rapporto segnale/disturbo
Phono 1,2 : 65 dB
Aux, Tuner : 85 dB
- Impedenza d'uscita
Altoparlante : 4-16 Ω
Cuffia : 8 Ω

Sezione sintonizzatore FM

- Gamma d'onda : 87,5-108 MHz
- Sensibilità : 0,85 μ V (IHF)
- Rapporto di cattura : 1,5 dB
- Selettività : 70 dB
- Rapporto segnale/disturbo : 70 dB
- Soppressione AM : 60 dB
- Soppressione FI : 90 dB
- FI : 10,7 MHz

Sezione sintonizzatore AM

- Gamma d'onda OM : 520-1605 kHz
(577-187 m)
- Sensibilità : 60 μ V per 26 dB S/D
- Selettività : 35 dB
- Soppressione FI : 60 dB
- FI /00 : 452 kHz
/22/72 : 460 kHz
/15/29/79 : 468 kHz
- Dimensioni : 480x150x380 mm

S. TEKNISKA DATA

- Uteffekt : 2x60 W (8 Ω) $d \leq 0,1\%$
- Effektbandbredd $d \leq 0,3\%$: 7-50.000 Hz
- Harmonisk distorsion vid
50 W (8 Ω) : 0,05 %
- Intermodulation (IHF
60-7000 Hz 4:1) vid
30 W (8 Ω) : 0,05 %
- Frekvensomfång : 20-20.000 Hz
- Kanalseparation
1 kHz : 55 dB
10 kHz : 45 dB
- Signal/brusförhållande
Phono 1,2 : 65 dB
Aux, Tuner : 85 dB
- Impedans
Högtalare : 4-16 Ω
Hörtelefon : 8 Ω

FM-radio

- Frekvensområde : 87,5-108 MHz
- Känslighet : 0,85 μ V (IHF)
- Infångningsindex : 1,5 dB
- Selektivitet : 70 dB
- Signal/brusförhållande : 70 dB
- AM-undertryckning : 60 dB
- MF-undertryckning : 90 dB
- MF : 10,7 MHz

AM-radio

- Frekvensområde MV : 520-1605 kHz
(577-187 m)
- Känslighet : 60 μ V för 26 dB signal/
brus
- Selektivitet : 35 dB
- MF-undertryckning : 60 dB
- MF /00 : 452 kHz
/22/72 : 460 kHz
/15/29/79 : 468 kHz
- Dimensioner : 480x150x380 mm

GB SPECIFICATIONS

- Power output : 2x60 W (8 Ω) $d \leq 0.1$ %
- Power bandwidth $d \leq 0.3$ % : 7-50.000 Hz (acc. to IHF)
- Harmonic distortion at 50 W (8 Ω) : 0.05 %
- Intermodulation distortion (acc. to IHF 60-7000 Hz 4:1) at 30 W (8 Ω) : 0.05 %
- Frequency response : 20-20.000 Hz
- Stereo separation
 - 1 kHz : 55 dB
 - 10 kHz : 45 dB
- Signal-to-noise ratio
 - Phono 1,2 : 65 dB
 - Aux./tuner : 85 dB
- Output impedance
 - Loudspeaker : 4-16 Ω
 - Headphone : 8 Ω

NL SPECIFICATIES

- Uitgangsvermogen : 2x60 W (8 Ω) $d \leq 0,1$ %
- Vermogensbandbreedte $d \leq 0,3$ % : 7-50.000 Hz
- Harmonische vervorming bij 50 W (8 Ω) : 0,05 %
- Intermodulatie (acc. 1 HF 60-7000 Hz 4:1) bij 30 W (8 Ω) : 0,05 %
- Frequentiebereik : 20-20.000 Hz
- Kanaalscheiding
 - 1 kHz : 55 dB
 - 10 kHz : 45 dB
- Signaal/ruisverhouding
 - Phono 1,2 : 65 dB
 - Aux, tuner : 85 dB
- Uitgangsimpedantie
 - Luidspreker : 4-16 Ω
 - Hoofdtelefoon : 8 Ω

F CARACTERISTIQUES TECHNIQUES

- Puissance de sortie : 2x60 W (8 Ω) $d \leq 0,1\%$
- Bande passante en puissance $d \leq 0,3$ % : 7-50.000 Hz
- Distorsion harmonique à 50 W (8 Ω) : 0,05 %
- Distorsion intermodulatoire (IHF 60-7000 Hz 4:1) à 30 W (8 Ω) : 0,05 %
- Courbe amplitude/fréquence : 20-20.000 Hz
- Separation en stéréo
 - 1 kHz : 55 dB
 - 10 kHz : 45 dB
- Rapport signal/bruit
 - Phono 1,2 : 65 dB
 - Aux, tuner : 85 dB
- Impédance de sortie
 - Haut parleur : 4-16 Ω
 - Casque d'écoute : 8 Ω

FM tuner section

- Wave range : 87.5-108 MHz
- Sensitivity : 0.85 μ V (IHF)
- Capture ratio : 1.5 dB
- Selectivity : 70 dB
- Signal-to-noise ratio : 70 dB
- AM suppression : 60 dB
- IF suppression : 90 dB
- IF : 10.7 MHz

AM tuner section

- Wave range MW : 520-1605 kHz (577-187m)
- Sensitivity : 60 μ V for 26 dB S/N
- Selectivity : 35 dB
- IF suppression : 60 dB
- IF /00 : 452 kHz
- /22/72 : 460 kHz
- /15/29/79 : 468 kHz
- Dimensions : 480x150x380 mm

FM-tuner

- Frequentiegebied : 87.5-108 MHz
- Gevoeligheid : 0.85 μ V (IHF)
- Vangbereik : 1.5 dB
- Selectiviteit : 70 dB
- Signaal/ruisverhouding : 70 dB
- AM-onderdrukking : 60 dB
- MF-onderdrukking : 90 dB
- MF : 10.7 MHz

AM-tuner

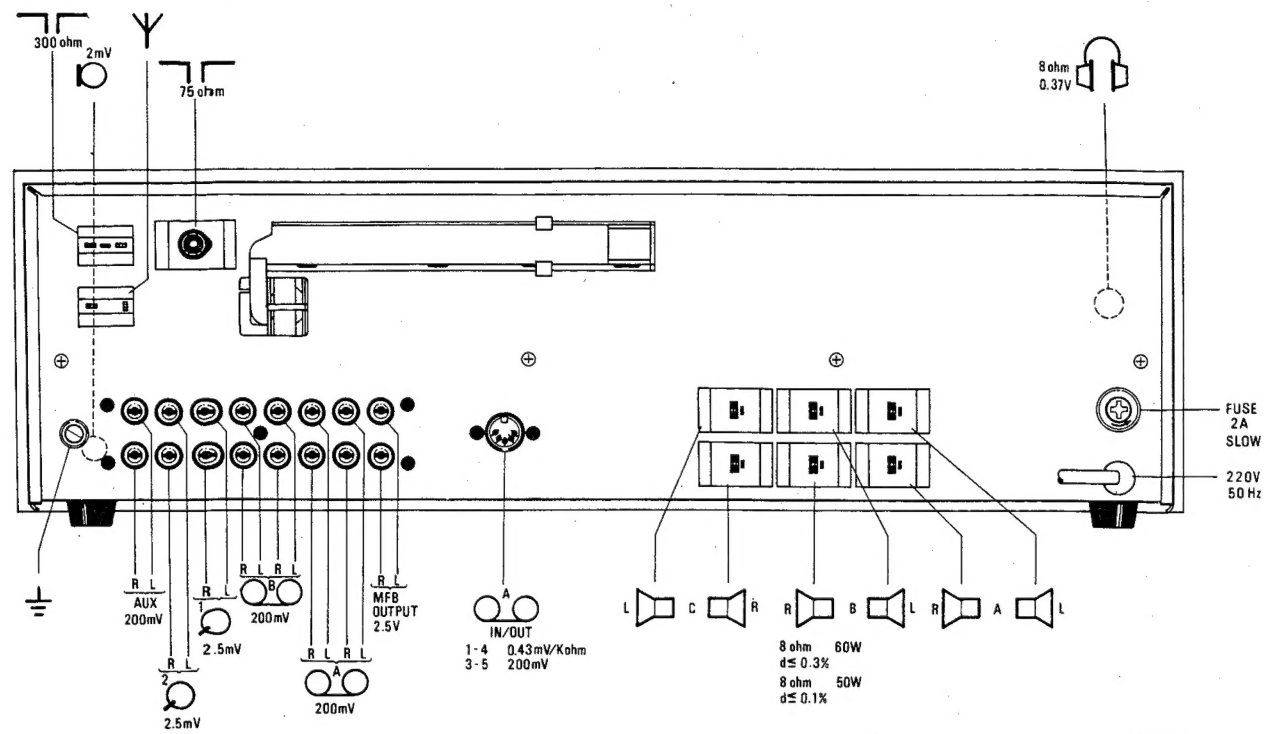
- Golfgebied MG : 520-1605 kHz (577-187 m)
- Gevoeligheid : 60 μ V bij 26 dB S/R
- Selectiviteit : 35 dB
- MF-onderdrukking : 60 dB
- MF /00 : 452 kHz
- /22/72 : 460 kHz
- /15/29/79 : 468 kHz
- Afmetingen : 480x150x380 mm

Section radio FM

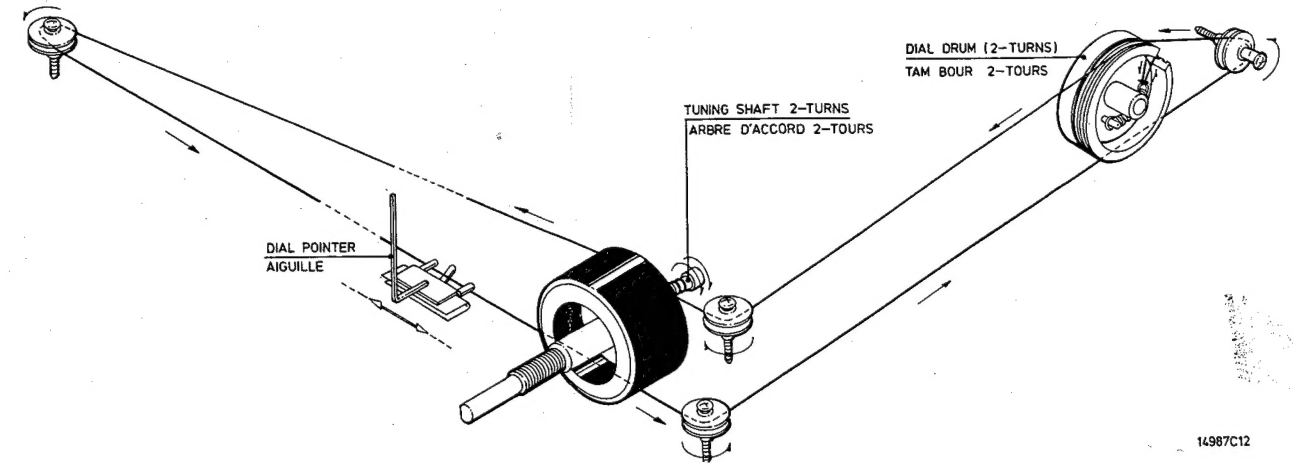
- Gamme : 87.5-108 MHz
- Sensibilité : 0.85 μ V (IHF)
- Rapport de capture : 1.5 dB
- Sélectivité : 70 dB
- Rapport signal/bruit : 70 dB
- Suppression AM : 60 dB
- Suppression fréquence intermédiaire : 90 dB
- FI : 10.7 MHz

Section radio AM

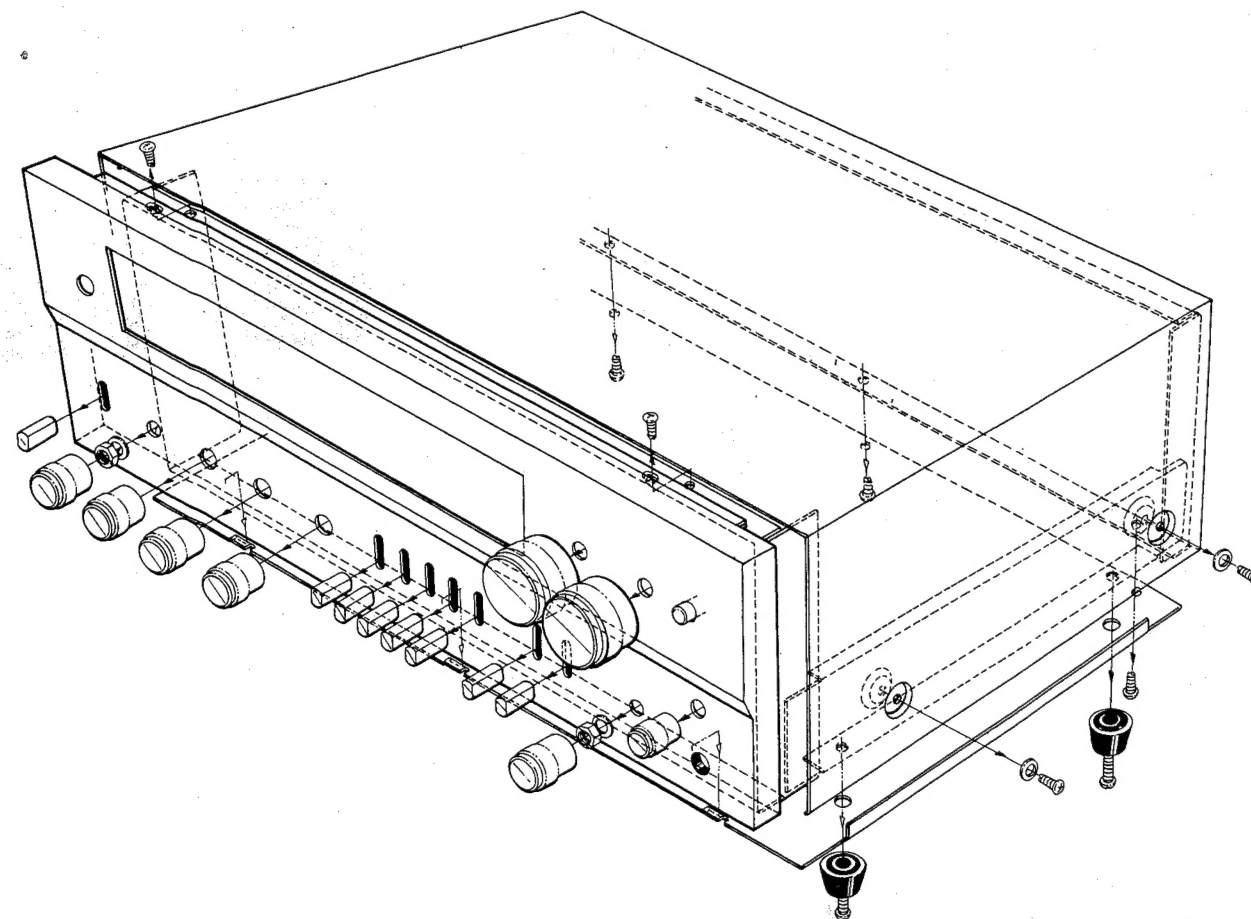
- Gamme MW (OM/PO) : 520-1605 kHz (577-187m)
- Sensibilité : 60 μ V pour 26 dB de rapport signal/bruit
- Sélectivité : 35 dB
- Suppression fréquence intermédiaire : 60 dB
- FI /00 : 452 kHz
- /22/72 : 460 kHz
- /15/29/79 : 468 kHz
- Dimensions : 480x150x380 mm



14698C12

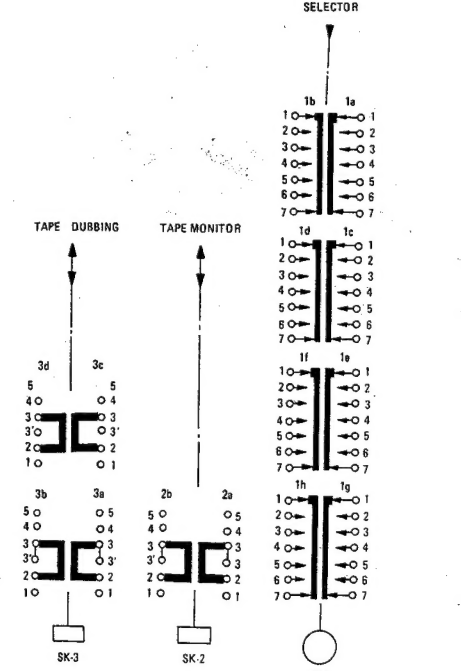
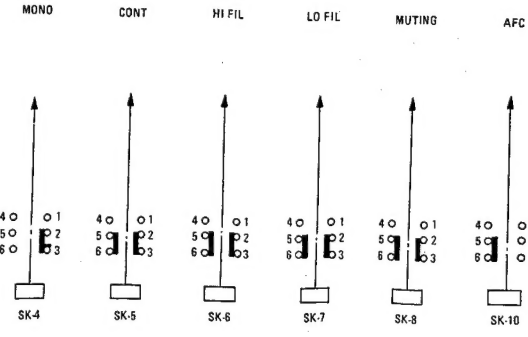
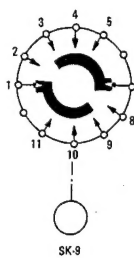
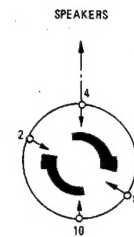


14987C12



14699D12

SPEAKERS			TAPE DUBBING		TAPE MONITOR		SELECTOR	
	left	right	1	A → B	1	TAPE A	1	AM
A	2	8	2	SOURCE	2	SOURCE	2	FM
B	3	9	3	COMMON	3	COMMON	3	FM MUTE
C	5	11	4	B → A	4	TAPE B	4	PHONO 1
COMM	1	7	5	NOT USED	5	NOT USED	5	PHONO 2
							6	AUX
							7	COMMON



14764C12

GRAM

The diagram illustrates a complex radio receiver circuit, likely a superheterodyne design, featuring several integrated circuits (ICs) and various passive components.

IC 251 (Top Right): This IC handles the intermediate frequency (IF) stages and detection. It includes three IF AMP blocks, a Quadrature Det, and an Audio output stage. It also features a feedback loop for AFC (Automatic Frequency Control) and a muting circuit (FM MUT).

IC 451 (Bottom Left): This IC is responsible for the RF (Radio Frequency) and IF stages. It includes an RF AMP, a TS103, and a TS102. It also features a feedback loop for AFC and a muting circuit (FM MUT).

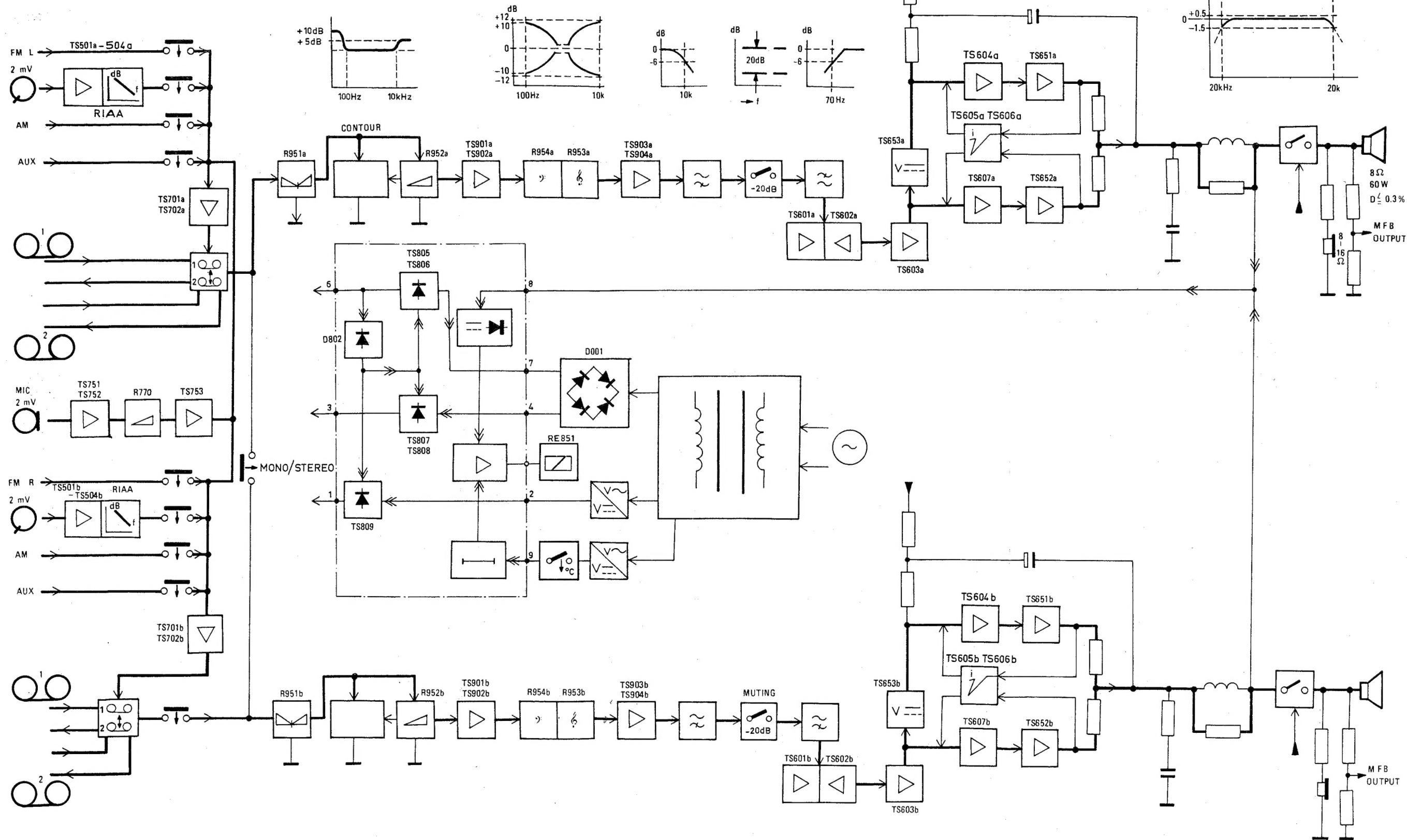
IC 351 (Bottom Right): This IC handles the FM (Frequency Modulation) and AM (Amplitude Modulation) stages. It includes a VCO (Voltage-Controlled Oscillator) and a T1 (Transformer) for the 38KHz signal. It also features a feedback loop for AFC and a muting circuit (FM MUT).

Other Components:

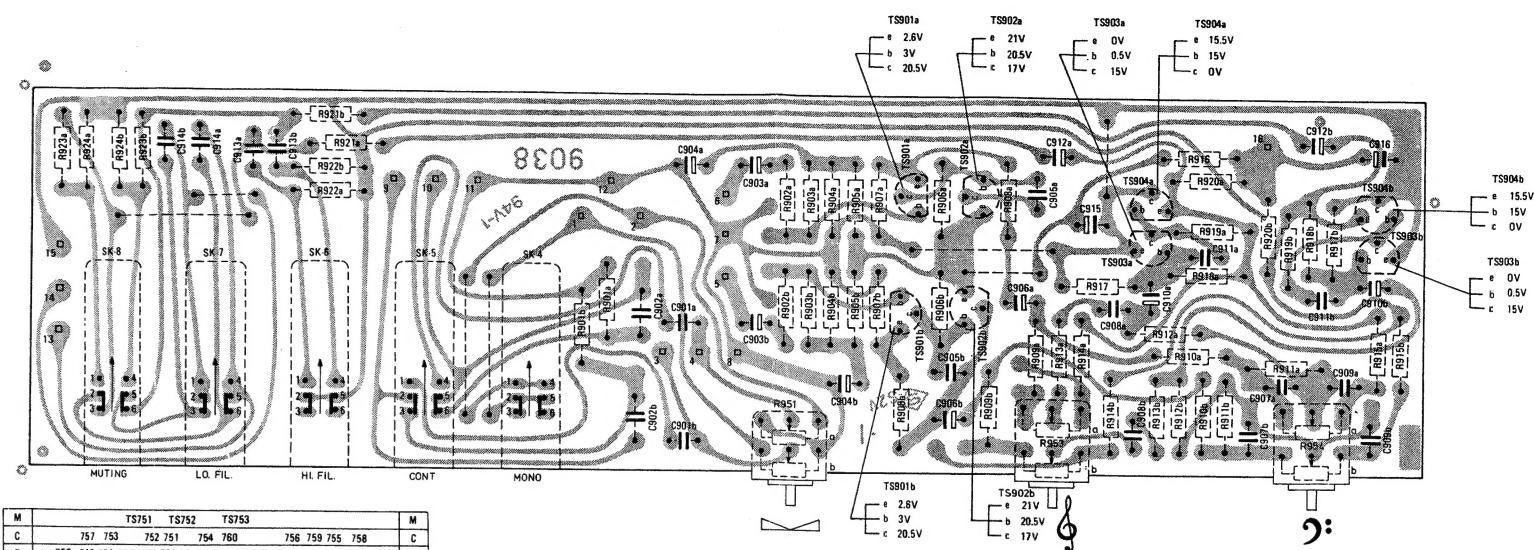
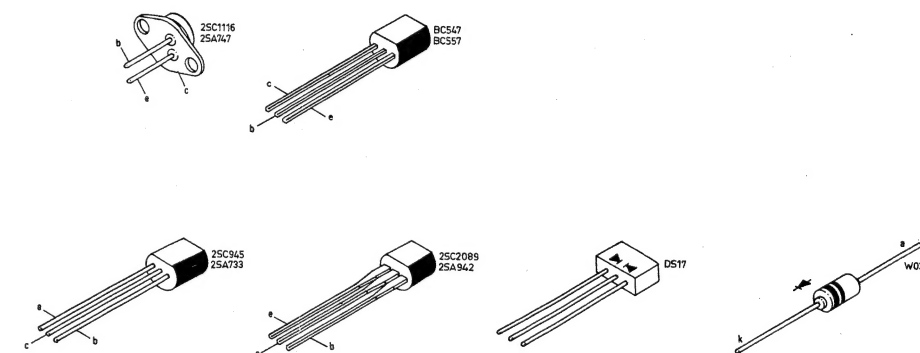
- Transformers:** S 101, S 102, S 103, S 104, S 105, S 401, S 402, S 403, S 404, S 201, S 202, S 301, S 302.
- Capacitors:** CF 201, CF 202, CF 203, CF 401, C 307/308, C 310.
- Transistors:** D 201, D 351.
- Resistors:** R 351.
- Inductors:** IND 201, IND 202, ST IND.
- Diodes:** TS 101, TS 102, TS 103, TS 201, TS 202, TS 301, TS 302, TS 401, TS 402, TS 403, TS 404, TS 203, TS 204.
- Other:** AGC (Automatic Gain Control), AFC (Automatic Frequency Control), FM MUT (Frequency Modulation Muting), AM (Amplitude Modulation), FM R (Frequency Modulation Right), FM L (Frequency Modulation Left).

The circuit is designed to receive and process both FM and AM signals, providing a high-quality audio output. The use of multiple ICs allows for a compact and efficient design, while the inclusion of feedback loops and muting circuits ensures optimal performance and user experience.

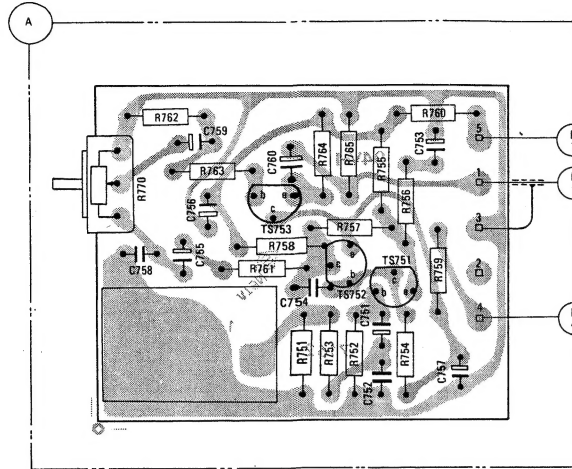
**BLOCK DIAGRAM
AUDIO**



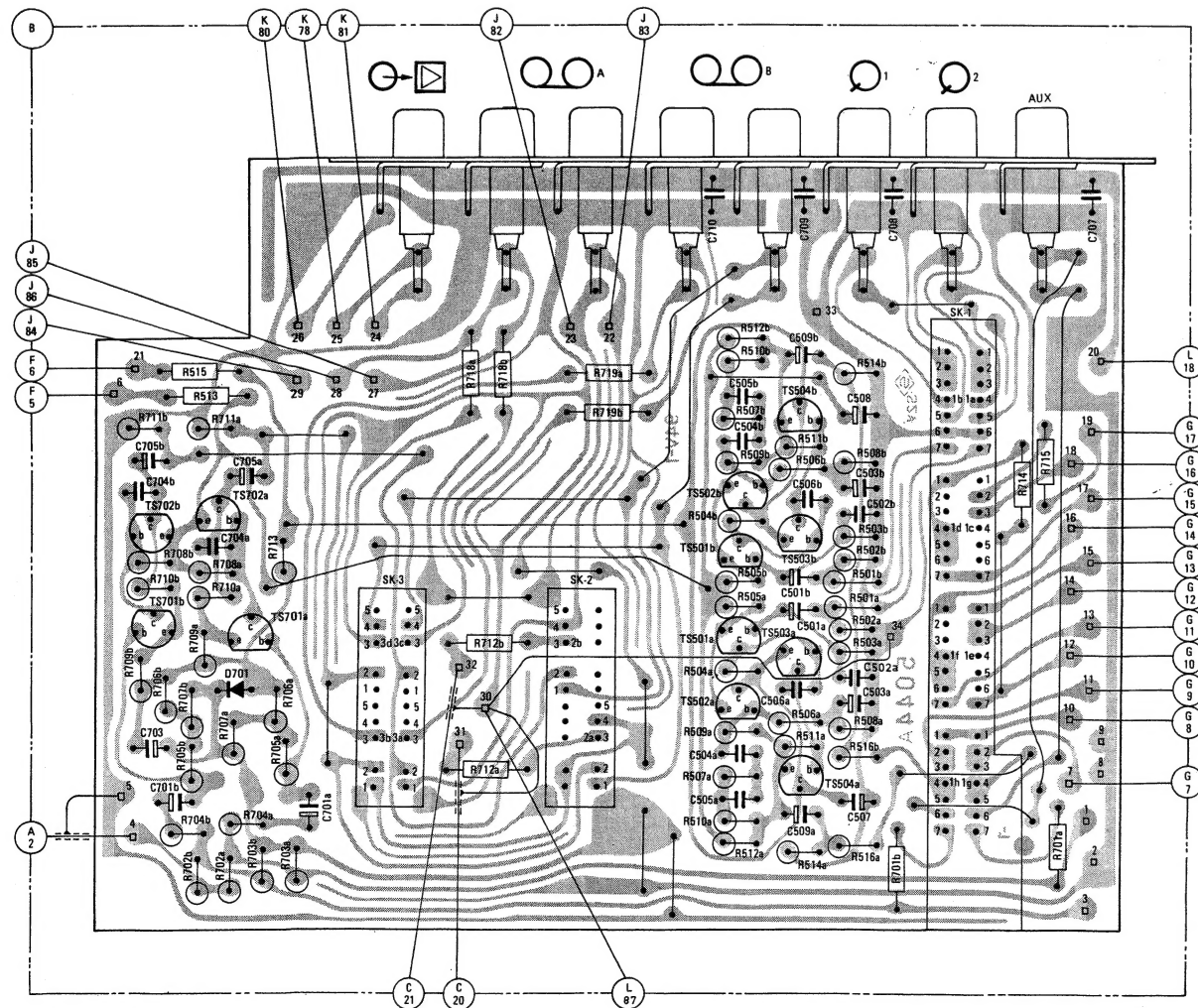
CS 61 694

[illegible][illegible]

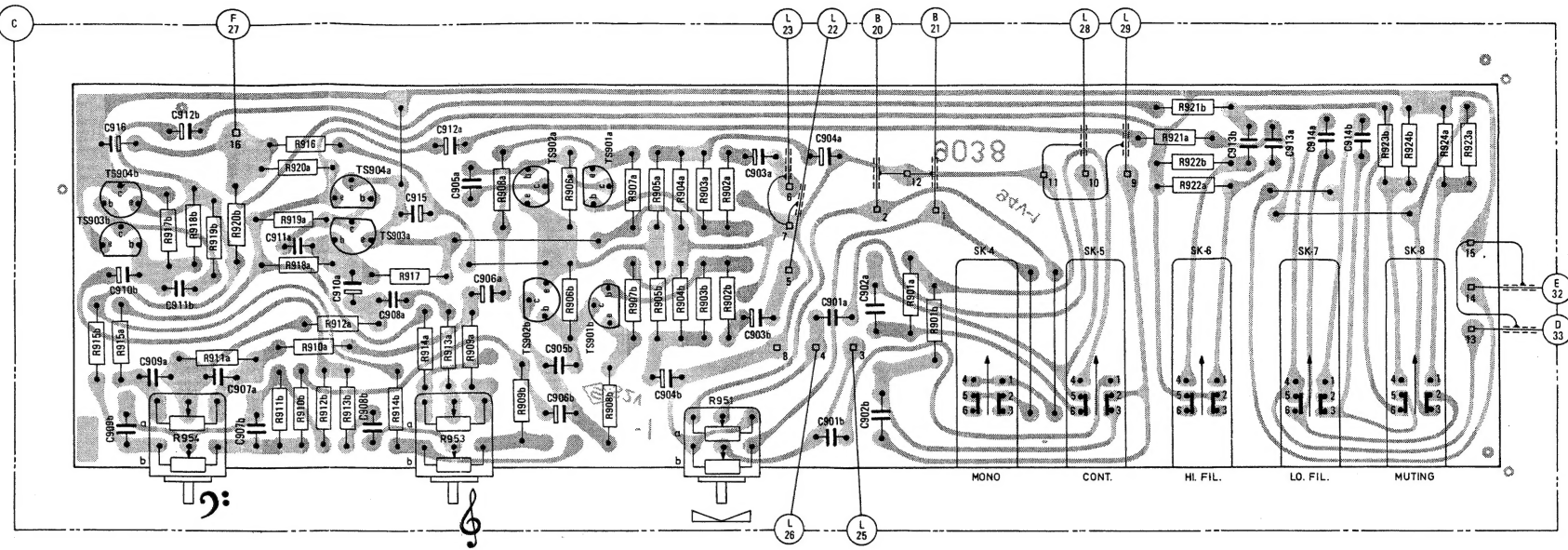
M	TS753 TS752 TS751						M
C	758 755 759 756	760 754	751 752	753 757			C
R	770 762 763 761	758 751-753 754 755-757	754 760 759				R



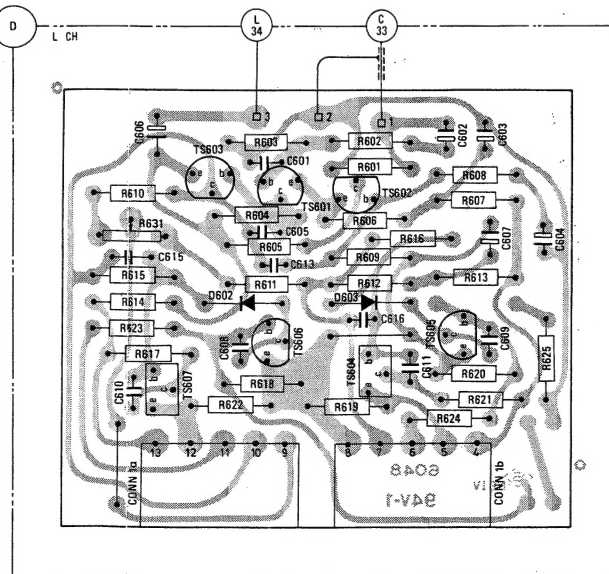
M	TS702b TS702a					TS501b TS502b TS503b TS504b	SK-1	M
M	TS701b D701 TS701a	SK-3				TS501a TS502a TS503a TS504a	SK-2	M
C	705b					710 504b 505b 509b 708 508 503b 708		C
C	704b 704a 705a					501a 501b 506b 502a 502b		C
C	703 701b	701a				504a 505a 506a 509a 503a 507		C
R	711b 515 513 711a					509b-512b 504b-507b 514b 508b	714 715	R
R	702b-710b	713				501b 503b 501a-503a		R
R	702a-710a					509a-512a 504a-507a 514a 508a 516a 516b 701b	701a	R



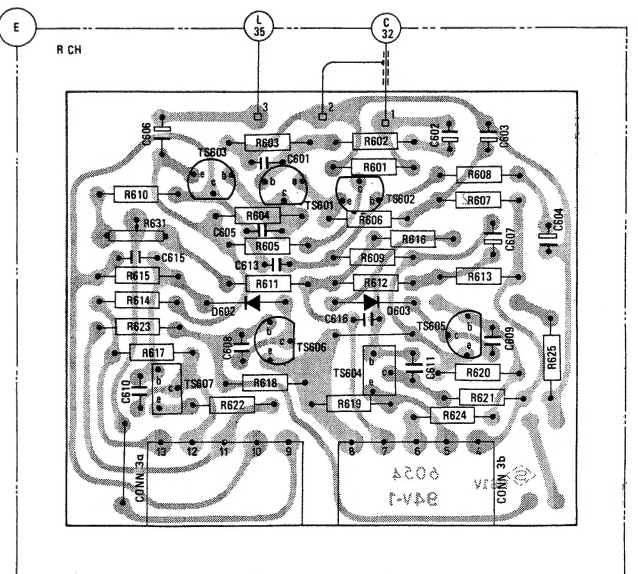
M	TS904b TS903b	TS904a TS903a	TS902a TS902b TS901a TS901b	SK-4	SK-5	SK-6	SK-7	SK-8	M
C	916 910b 911b 912b	911a 910a 908a 915 912a 905a	903a 904a			913b 913a 914a 914b			C
C	909b 905a	907a 907b	905b 906b	904b 903b	901a 901b 902a 902b				C
R	917b-920b	918a-920a 916 912a	917 914a 913a 909a 908a	906a 907a 902a-905a		921a 921b		923b 924b 924a 923a	R
R	915b 915a 954a 911a	910a 910b-914b	953	909b 908b 908b 907b 902b-905b 951	901a 901b	922b 922a			R



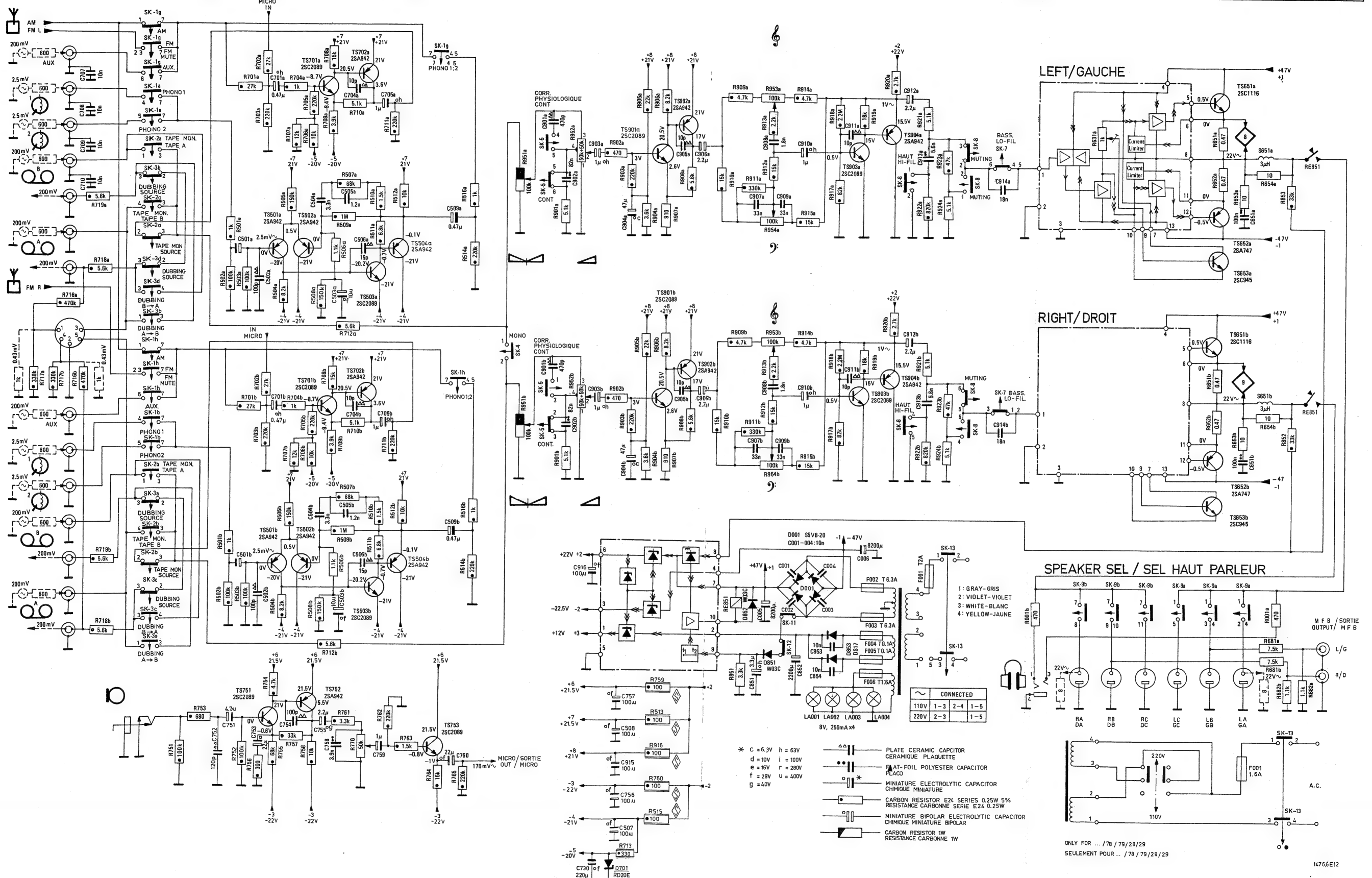
M	TS607 TS603 D602 TS601 TS606 TS602 D603 TS604 TS605	M
C	615 606 605 601 602 603 607 604	C
C	610 608 613 616 611 609	C
R	610 631 615 604 603 605 602 601 606 609 616 608 607 613	R
R	614 623 617 622 611 618 619 612 624 620 621 625	R

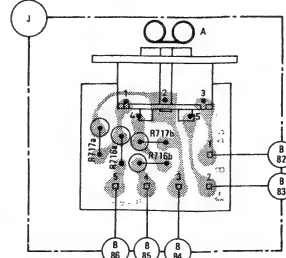
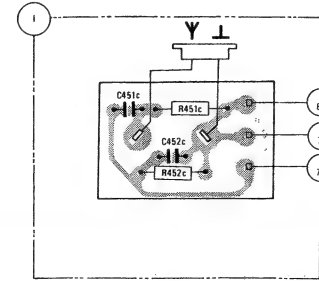
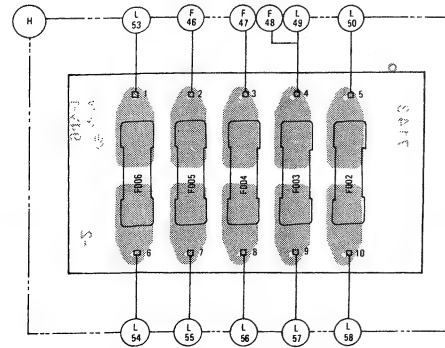
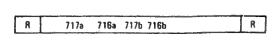
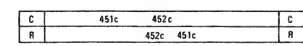
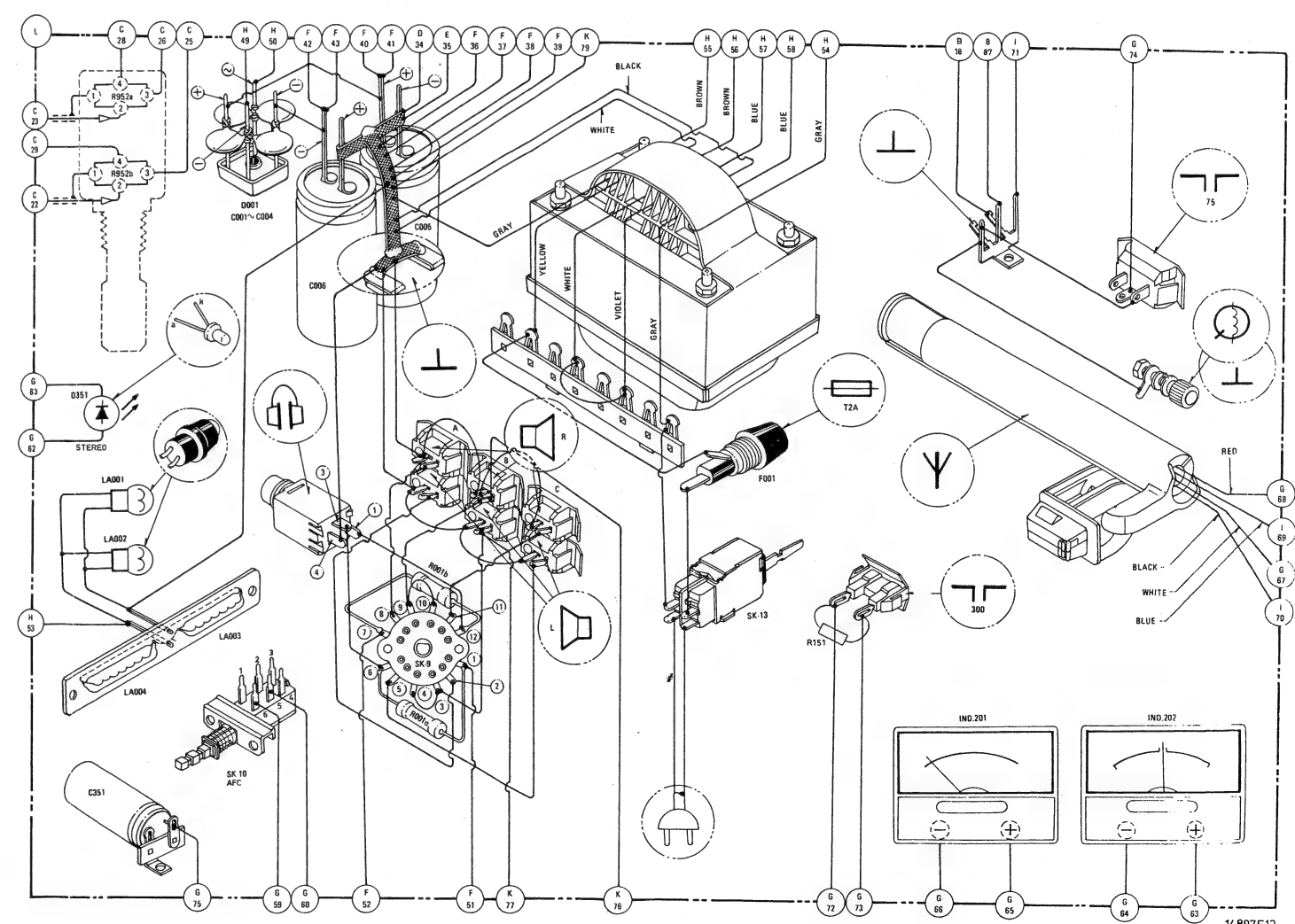
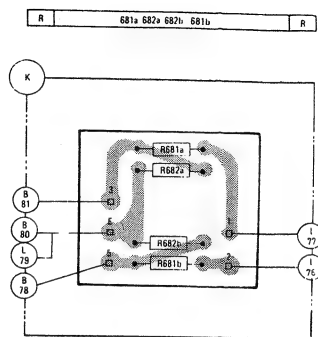


M	TS607 TS603 D602 TS601 TS606 TS602 D603 TS604 TS605	M
C	615 606 605 601 602 603 607 604	C
C	610 608 613 616 611 609	C
R	610 631 615 604 603 605 602 601 606 609 616 608 607 613	R
R	614 623 617 622 611 618 619 612 624 620 621 625	R

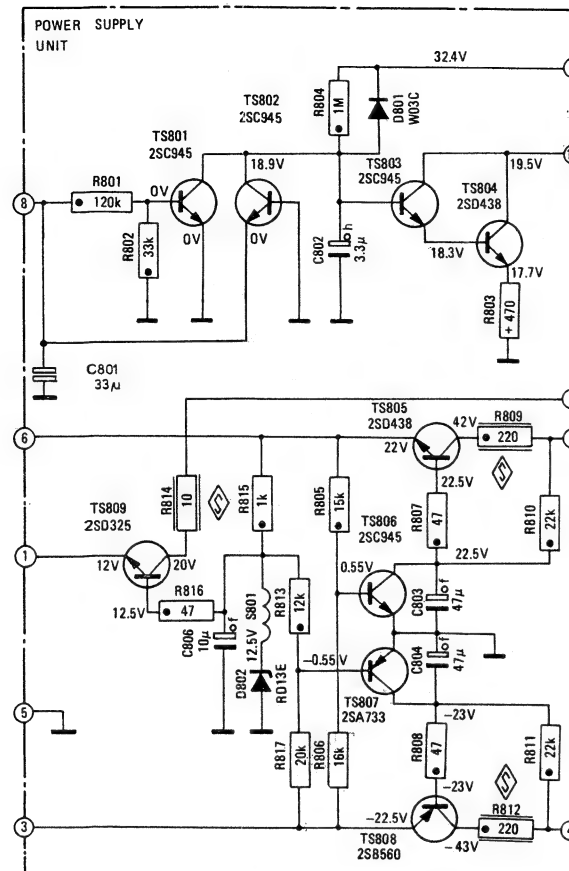


M	SK-1 SK-2 SK-3			TS501a TS502a TS701a				TS702a TS503a TS504a		SK-4 SK-5		TS901a TS902a		TS903a TS904a SK-6				SK-8 SK-7		TS651a-TS653a		S651a	M						
M				TS501b TS502b TS701b				TS702b TS503b TS504b				TS901b TS902b D701		D801 TS903b TS904b						TS651b-TS653b		S651b	M						
M				TS751 TS752				TS753																	M				
C	707-710			501a	502a	508	701a	503a-506a	507	704a	705a	509a	901a	902a	903a	915	904a	905a	906a	RE851 D852 D851 SK-11 SK-12 D853 LA001-LA004 F002-F006 F001 SK-13	SK-9								
C				501b	502b	701b	503b-506b	704b	705b	509b			901b	902b	903b	904b	905b	906b	907a-910a	911a	912a	913a	916	914a	651a	C			
C				752	751	753	754	755	757	758	759	760	915	757	508	915	756	507	907b-910b	911b	912b	913b	914b	651b	C				
R	716a-719a			501a-503a	701a-707a	504a-509a	708a-710a	712a	711a	510a-512a	516a	514a	951a	901a	952a	902a-908a	909a-913a	953a	954a	916	914a	915a	917a-920a	921a-924a	651a-653a	654a	C		
R	716b-719b			501b-503b	701b-707b	504b-509b	708b-710b	712b	711b	510b-512b	516b	514b	951b	901b	952b	902b-908b	909b-913b	953b	954b	914b	915b	917b-920b	921b-924b	651b-653b	654b	852	R		
R				751-753	754-758	759-761	770	762-785			759	513	916	760	515	713	851					001b		681a	681b	001a	682a	682b	R

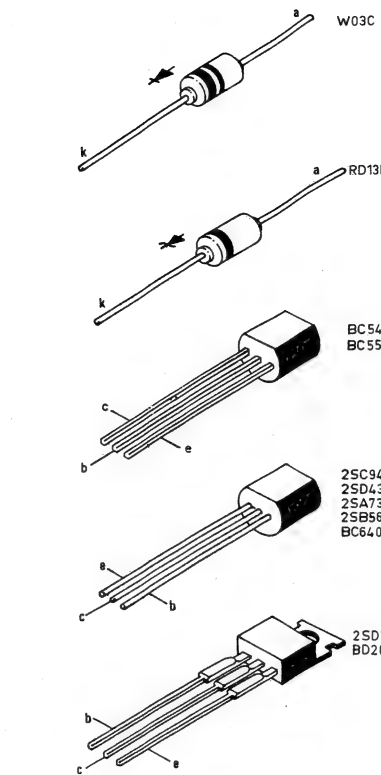
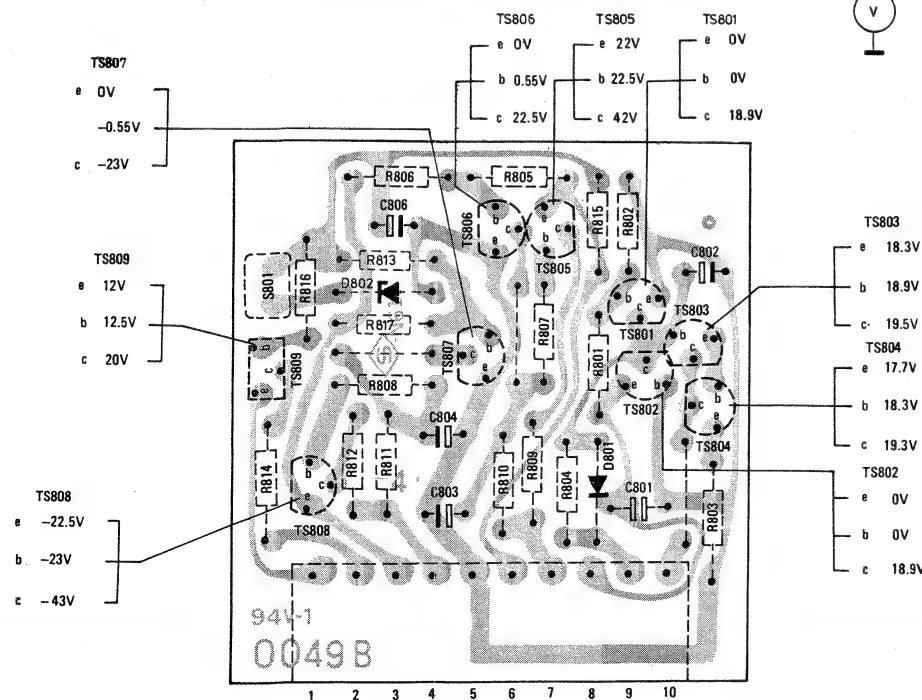




M	TS801	TS802	D801 TS803	TS804	M
M	TS809	D802 S801	TS806 TS807	TS805 TS808	M
C	801	806	802	803 804	C
R	801	802	804	803	R
R	816 814	815 813 817 805 806	807 808	809-812	R



M	S801 TS809	TS808	D802 TS807	TS806	TS805	D801	TS801-TS804	M
C	806	804	803				801 802	C
R	816	806	813	805	807	815	801 802	R
R	814 817 808 812 811			810 808	804		803	R

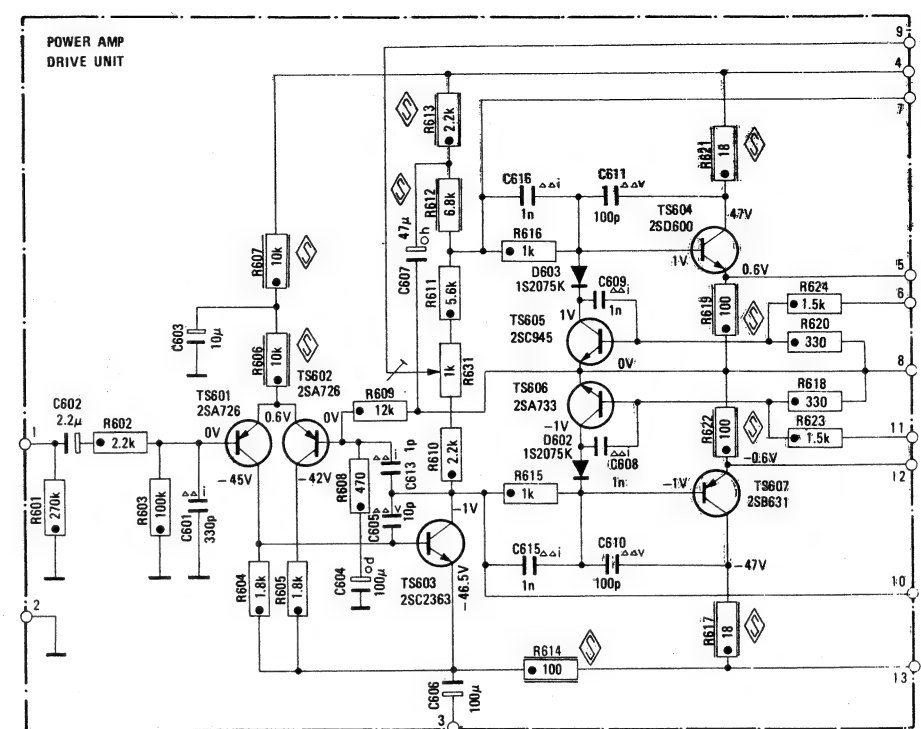


CARBON RESISTOR E24 SERIES 0.25W 5%
RÉSISTANCE A CARBONNE SERIE E24 0.25W
MINIATURE ELECTROLYTIC CAPACITOR • f=25V
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CHIMIQUE MINIATURE BIPOLAR

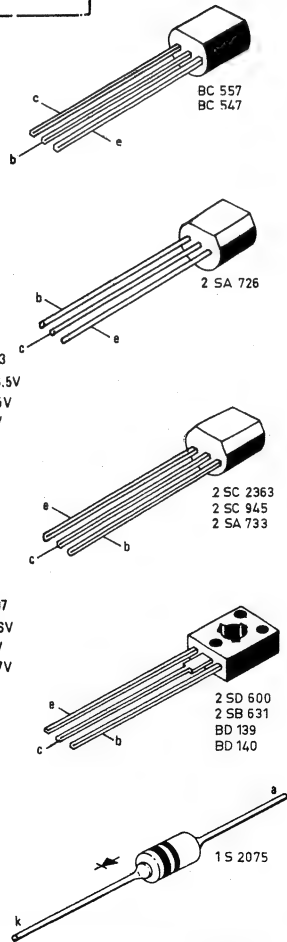
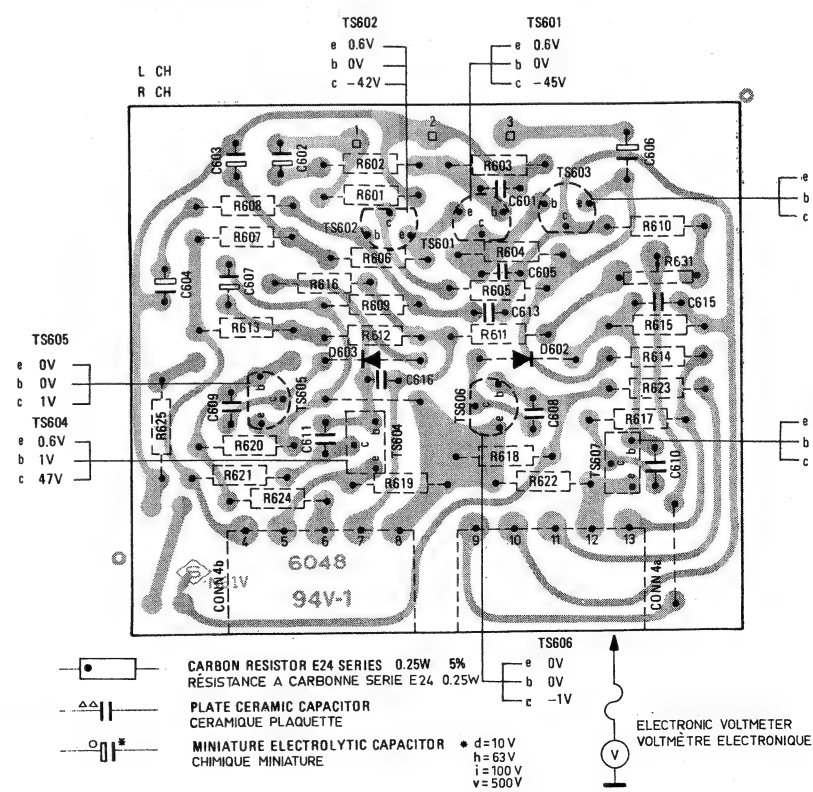
ELECTRONIC VOLTMETER
VOLTÈMÈTRE ÉLECTRONIQUE

14894C12

M	TS601	TS602	TS603	D603 TS605	TS604	M
M	TS609	D602 TS606	TS607			M
C	602	601 603	604 605 613 607 606	615 616 608-611		C
R	601	602 603	604-607	608 609 610-613	614	R
R	601	602 603	604-607	608 609 610-613	614	R



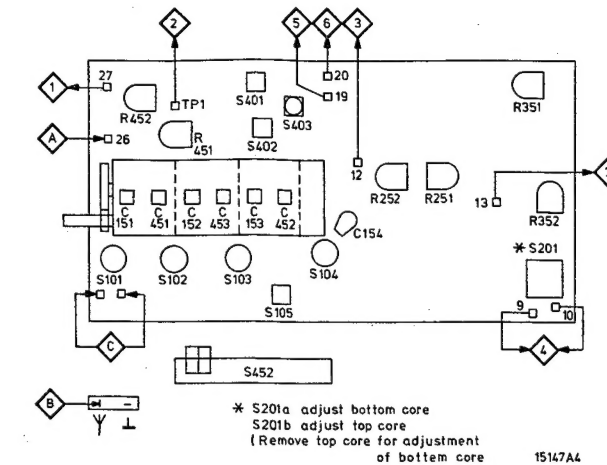
M	TS605	TS604	D603	TS602	TS606	TS601	D602	TS603	TS607	M
C	604	607	603	602		601	605	606	615	C
C	609			611	616		613	608	610	C
R	613	607	608	616	609	606	601	602	605	R
R	625	621	620	624	611	619	618	612	622	R



14893C12

SK...	Signal to		Trimming point	Adjust		Indication
Input selector						
AM	452 kHz /00 (460 kHz) /22/72 (468 kHz) /15/28/29/79 $\Delta f = 20$ kHz (50 Hz) via 10 nF		Max.cap.	 S403	 Max. + symm.	
	600 kHz			S402	 Max.	
	1400 kHz			C453		
	600 kHz			S401		
	1400 kHz			C452		
	600 kHz			S451		
	1400 kHz			C451		
	1000 kHz 200 μ V		Tune in	R451		SIGNAL meter scale: 3
	1000 kHz 1 mV		Tune in	R452		 200 mV~
FM AFC off	98 MHz		Tune in	S105		 Max.
	98 MHz $\Delta f \pm 75$ kHz		Tune in	S201a		 Min.
			Tune in	S201b	 or 4	
	90 MHz $\Delta f \pm 75$ kHz			S104		 or Max. Min.
	106 MHz $\Delta f \pm 75$ kHz			C154		
	90 MHz $\Delta f \pm 75$ kHz			S101,102 S103		 Max.
	106 MHz $\Delta f \pm 75$ kHz			C151,152 C153		
FM MUTE	98 MHz 10 μ V		Tune in	R251		 or 7
FM	98 MHz 1 mV		Tune in	R252		SIGNAL meter scale: 4
	100 MHz Pilot 19 kHz		Tune in	R352		Adjust for 76 kHz ± 50 Hz 8
	98 MHz 1 mV Pilot 19 kHz 8 % S (L=1 kHz 90 % Mod.) S (R= No signal)		Tune in	R351	 Min.	
	98 MHz 1 mV Pilot 19 kHz 8 % S (R=1 kHz 90 % Mod.) S (L=No signal)			R351	 Min. 9	

↑ Repeat - Herhalen - Répéter - Wiederholen - Ripetere - Repetera - Gentage - Gjntagelse - Toista



(GB)

- Turn out the core of the coil to an extent that it is on a level with the upper edge of the coil.
- Set the pointer to 600 kHz
- Set the pointer to 1400 kHz
- Adjust for minimal distortion
- Set the pointer to 90 MHz
- Set the pointer to 106 MHz
- Adjust so that the output signal at 5 and 6 just disappears
- First turn R352 to the stop where the stereo indicator is extinguished, then adjust in such a way that the indicator will just light.
- Adjust for equal output levels of 5 and 6.

(F)

- Dévisser le noyau de la bobine jusqu'à ce qu'il soit au même niveau que le bord supérieur de la bobine.
- Régler l'index sur 600 kHz
- Régler l'index sur 1400 kHz
- Ajuster sur distorsion minimale
- Régler l'index sur 90 MHz.
- Régler l'index sur 106 MHz
- Ajuster pour que le signal de sortie sur 5 et 6 disparaisse tout juste.
- Tourner d'abord R352 jusqu'à la butée, l'indication stéréo s'éteint, régler ensuite pour que l'indication s'allume de justesse.
- Régler sur niveaux de sortie égaux de 5 et 6.

(NL)

- Draai de kern zover uit de spoel, zodat deze op gelijke hoogte is met de spoelrand.
- Stel de wijzer in op 600 kHz.
- Stel de wijzer in op 1400 kHz.
- Regel af op minimale vervorming.
- Stel de wijzer in op 90 MHz.
- Stel de wijzer in op 106 MHz.
- Zo instellen dat het signaal op 5 en 6 juist verdwijnt.
- Draai R352 tot de stuit, zodat de stereoindicator uit is. Daarna zodanig instellen, dat de indicator juist oplicht.
- Instellen op gelijk uitgangsniveau op 5 en 6.

(D)

- Den Kern so weit aus der Spule drehen bis dieser mit dem oberen Rand der Spule fluchtet.
- Der Zeiger auf 600 kHz einstellen
- Der Zeiger auf 1400 kHz einstellen
- Auf minimale Verzerrung einstellen
- Der Zeiger auf 90 MHz einstellen
- Der Zeiger auf 106 MHz einstellen
- So einstellen, dass das Ausgangssignal an 5 und 6 gerade wegfällt.
- R352 zuerst bis zum Anschlag drehen wo der Stereoindikator gelöscht ist, danach auf eine solche Weise einstellen dass der Indikator gerade brennt.
- Einstellen auf gleiche Ausgangspegel von 5 und 6.

I

- 1 Svitare il nucleo della bobina fino a quando sia allo stesso livello dell'orlo superiore della bobina
- 2 Regolare l'indice su 600 kHz
- 3 Regolare l'indice su 1400 kHz
- 4 Regolare per distorsione minima
- 5 Regolare l'indice su 90 MHz
- 6 Regolare l'indice su 106 MHz
- 7 Regolare in modo che il segnale di uscita su 5 e 6 sparisca appena.
- 8 Ruotare prima R352 fino all'arresto, l'indicazione della stereofonica si spegne allora. Regolare poi perchè l'indicazione si accende appena.
- 9 Regolare per livelli di uscita uguali di 5 e 6.

DK

- 1 Drej spolekernerne så langt ud, at de er i niveau med spoledåsens overkant.
- 2 Indstil viseren på 600 kHz
- 3 Indstil viseren på 1400 kHz
- 4 Juster til minimum forvrængning
- 5 Indstil viseren på 90 MHz
- 6 Indstil viseren på 106 MHz
- 7 Juster således, at udgangssignalet på 5 og 6 lige netop forsvinder.
- 8 Drej først R352 til den position hvor stereo-indikatoren slukker og juster herefter således at stereo-indikatoren lige netop tænder.
- 9 Juster til ensartet udgangsniveau på 5 og 6.

S

- 1 Vrid ut kärnan så att den kommer i höjd med spolens överkant.
- 2 Ställ skalvisaren på 600 kHz.
- 3 Ställ skalvisaren på 1400 kHz
- 4 Justera till minsta möjliga distorsion
- 5 Ställ skalvisaren på 90 MHz
- 6 Ställ skalvisaren på 106 MHz
- 7 Justera så att utsignalen i 5 och 6 precis försvinner.
- 8 Vrid först R352 tills stereoindikatorn släcks. Justera sedan på sådant sätt att indikatorn precis tänds.
- 9 Justera till lika utnivå på 5 och 6.

N

- 1 Skru spolekjernen ut så meget at den kommer på samme høyde som øvre spolekant.
- 2 Innstill viseren på 600 kHz
- 3 Innstill viseren på 1400 kHz
- 4 Juster til minimal forvrengning.
- 5 Innstill viseren på 90 MHz
- 6 Innstill viseren på 106 MHz
- 7 Juster slik at utgangssignalet på 5 og 6 akkurat forsvinner.
- 8 Drei først R352 til det sted hvor stereoindikatoren slukker, deretter slik at stereoindikatoren akkurat tenner.
- 9 Juster 5 og 6 til samme utgangsnivå.

GB

Safety regulations require that the set be restored to its original condition and that parts which are identical with those specified, be used.

NL

Veiligheidsbepalingen vereisen, dat het apparaat bij reparatie in zijn oorspronkelijke toestand wordt teruggebracht en dat onderdelen, identiek aan de gespecificeerde, worden toegepast.

F

Les normes de sécurité exigent que l'appareil soit remis à l'état d'origine et que soient utilisées les pièces de rechange identiques à celles spécifiées.

D

Die Sicherheitsvorschriften erfordern, dass das Gerät sich nach der Reparatur in seinem originalen Zustand befindet und dass die benutzten Einzelteile den aufgeführten Teilen identisch sind.

I

Le norme di sicurezza esigono che l'apparecchio venga rimesso nelle condizioni originali e che siano utilizzati i pezzi di ricambio identici a quelli specificati.

S

Säkerhetsbestämmelserna kräver att varje reparation skall utföras korrekt med hänsyn till ursprunglig placering av komponenter, ledningar etc. och med användning af föreskrivna reservdelar.

DK

Myndighedernes sikkerheds- og radiostøjbestemmelser kræver, at enhver reparation skal udføres korrekt m.h.t. overholdelse af originalplacering og montering af komponenter, ledningsbundter, etc., og ved anvendelse af de foreskrevne reservedele.

N

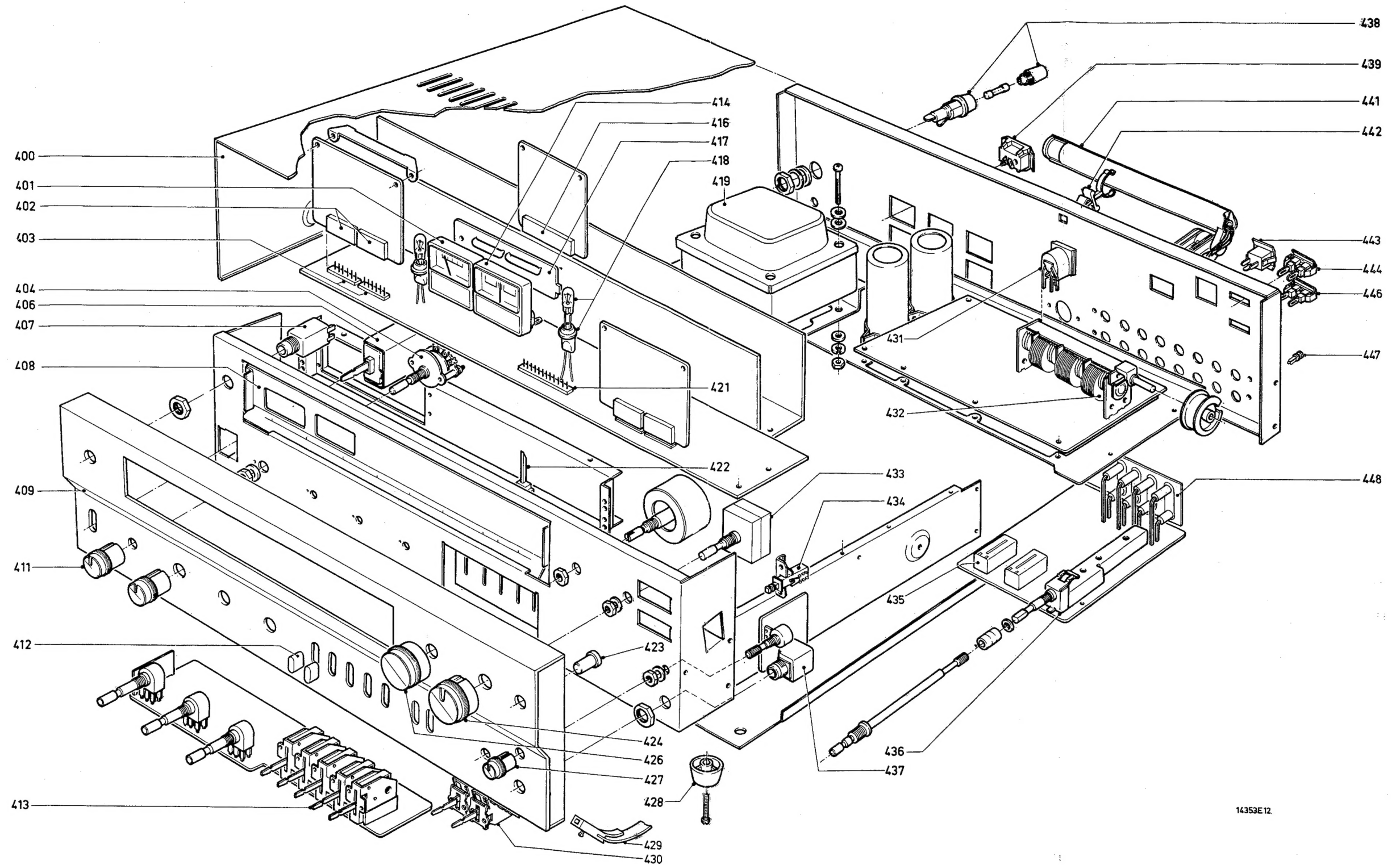
Sikkerhetsbestemmelser kreves at apparatet blir gjenopprettet til original utførelse og at deler som er identiske med de som er spesifisert, blir benyttet.

SF

Korjatesa laitetta on turvallisuussyistä ehdottomasti eneteltävä oikein ja käytettävä tehtaan määäämiä alkuperäisvaraosia.

SF














- 1 Käännä kelan sydäntä ulos niin paljon, että se on tasoissa kelan yläreunan kanssa.
- 2 Aseta osoitin 600 kHz:iin
- 3 Aseta osoitin 1400 kHz:iin.
- 4 Säädä särö mahdollisimman pieneksi
- 5 Aseta osoitin 90 MHz:iin
- 6 Aseta osoitin 106 MHz:iin
- 7 Säädä siten, että lähtösignaali pisteissä 5 ja 6 juuri ja juuri katoaa.
- 8 Kierrä R352 ensin asentoon, jossa stereomerkkivalo sammuu ja säädä sitten niin, että se juuri ja juuri syttyy.
- 9 Säädä pisteisiin 5 ja 6 yhtäsuuret lähtötasot.






















14353E12

400	4822 425 50108	412	4822 410 22008	424	4822 413 50979	435	4822 277 10433	448	4822 267 40312
401	4822 347 10198	413	4822 277 10431	426	4822 413 50978	436	4822 273 80179		
402	4822 267 40262	414	4822 347 10197	427	4822 413 30747	437	4822 267 30282		
403	4822 267 40259	416	4822 267 40262	428	4822 462 71088	438	4822 256 40049		
404	4822 273 60106	417	4822 134 90007	429	4822 277 10432	439	4822 267 30284		
406	4822 276 10665	418	4822 134 40345	430	4822 277 10449	441	4822 158 60407		
407	4822 267 30283	419	4822 146 30312	431	4822 267 40209	442	4822 256 90203		
408	4822 333 50554	421	4822 267 50258	432	4822 125 30012	443	4822 267 30299		
409	4822 426 50273	422	4822 450 80593	433	4822 102 30277	444	4822 267 40264		
411	4822 413 40783	423	4822 410 22012	434	4822 276 10664	446	4822 267 40263		

TUNER PRINT

					
102	Cer.cap. 0.022 μ F	4822 121 40153	101	• 3SK45B = BFS28	5322 130 40778
105	Minicap. 0.5 pF	4822 122 31212	102	• 2SC1674 = BF494	4822 130 44195
107	Cer.cap. 3 pF	4822 122 31223	103	• 2SC1675 = BF495	4822 130 40947
109	Cer.cap. 300 pF	4822 121 50041	201	• 2SC930 = BF494	4822 130 44195
110÷113	Cer.cap. 0.022 μ F	4822 121 40153	202-203	• 2SC536 = BC547	4822 130 44257
117	Cer.cap. 0.022 μ F	4822 121 40153	301-302	• 2SK44BC	4822 130 41152
119	Cer.cap. 0.022 μ F	4822 121 40153	401	• 2SC536 = BC547	4822 130 44257
122	Cer.cap. 0.022 μ F	4822 121 40153			
154	Trimmer 10 pF	4822 125 50085	102	1S2687 = BA102	5322 130 30272
155	Gang cap.	4822 125 30012	201-202	1N60P = 2AA119	4822 130 30312
201	Cer.cap. 0.01 μ F	4822 121 50582	203-206	1S2473 = BA221	4822 130 30831
204	Cer.cap. 0.01 μ F	4822 121 50582	207	KB162 = BA216	4822 130 30702
205÷207	Cer.cap. 0.04 μ F	4822 121 40413	301-302	1S2473 = BA221	4822 130 30831
214	Elco BP 0.47 μ F-50 V	4822 124 20634	401	1S2473 = BA221	4822 130 30831
217	Cer.cap. 0.04 μ F	4822 121 40413	208-209	KB162 = BA216	4822 130 30702
219÷221	Cer.cap. 0.04 μ F	4822 121 40413			
223	Cer.cap. 0.04 μ F	4822 121 40413	251	HA1137	4822 209 80378
224	Elco 4.7 μ F-25 V	5322 124 24104	351	HA1196	4822 209 80377
225	Elco lo-leak 0.1 μ F-50 V	4822 124 10209	451	HA1197	4822 209 80376
226-227	Cer.cap. 0.022 μ F	4822 121 40153	INPUT PRINT		
228	Elco 4.7 μ F-25 V	5322 124 24104			
307	Elco lo-leak 3.3 μ F-25 V	5322 124 14067	501a-b	Elco lo-leak 4.7 μ F-25 V	5322 124 10014
308	Elco lo-leak 1.5 μ F-35 V	5322 124 14078	504a-b	Mylar cap. 3300 pF-50 V	4822 122 30099
310	Elco lo-leak 0.47 μ F-50 V	4822 124 10211	505a-b	Mylar cap. 1200 pF-50 V	4822 121 40452
313	Elco lo-leak 4.7 μ F-25 V	5322 124 10014	707÷710	Cer.cap. 10 nF	4822 121 50582
401-402	Cer.cap. 0.01 μ F	4822 121 50582			
403-404	Cer.cap. 0.04 μ F	4822 121 40413	506a-b	Carbon res. 1.1 K - 1/4 W	4822 110 60108
406	Cer.cap. 0.01 μ F	4822 121 50582	710a-b	Carbon res. 5.1K - 1/4 W	5322 116 54595
407	Elco 4.7 μ F-25 V	5322 124 24104			
410	Cer.cap. 0.01 μ F	4822 121 50582	501a-b	2SA942	4822 130 41176
416	Elco lo-leak 0.10 μ F-50 V	4822 124 10209	502a-b	2SC2089	4822 130 41177
417	Cer.cap. 0.01 μ F	4822 121 50582	503a-b	2SC2089	4822 130 41177
419	Elco lo-leak 0.1 μ F-50 V	4822 124 10209	504a-b	2SA942	4822 130 41176
420-421	Cer.cap. 0.01 μ F	4822 121 50582	701a-b	2SC2089	4822 130 41177
			702a-b	2SC2089	4822 130 41177
211	Carbon res. 430 Ω - 1/4 W	5322 116 54522	TONE CONTROL PRINT		
231	Carbon res. 5.1K - 1/4 W	5322 116 54595			
251	Trimpot. 100K	4822 100 10212	906a-b	Elco bi-polar 2.2 μ F-50 V	4822 124 20657
252	Trimpot. 20K	4822 100 10213	907a-b	Mylar cap. 18 nF	4822 121 40314
301	Carbon res. 20K - 1/4 W	5322 116 54642	908a-b	Mylar cap. 1800 pF	4822 121 40454
351	Trimpot. 50K	4822 100 10214	909a-b	Mylar cap. 18 nF	4822 121 40314
352	Trimpot. 10K	4822 100 10211	912a-b	Elco 2.2 μ F-50 V	4822 124 20584
406	Carbon res. 300K - 1/4 W	5322 116 54743			
451	Trimpot. 300 Ω	4822 100 10216	901a-b	Carbon res. 5.1 k Ω -1/4 W	5322 116 54595
452	Trimpot. 50K	4822 100 10214	904a-b	Carbon res. 3.6 k Ω -1/4 W	4822 110 60122
			907a-b	Carbon res. 910 Ω - 1/4 W	4822 110 60106
101	FM ant. coil 129A	4822 156 60082	921a-b	Carbon res. 5.1 k Ω - 1/4 W	5322 116 54595
102	FM RF coil 127B	4822 156 40667	924a-b	Carbon res. 5.1 k Ω - 1/4 W	5322 116 54595
103	FM RF coil 128B	4822 156 40668	951a-b	Balance pot. 100K	4822 102 30278
104	FM osc. coil 114L	4822 156 20747	953a-b	Treble pot. 100K	4822 102 30276
105	FM IFT 207A	4822 153 50217	954a-b	Bass pot. 100K	4822 102 30276
151	Choke coil 0.8 μ H	4822 157 40147			
201	FM IFT 221D	4822 153 60101	201÷203	Ceramic filter	4822 242 70269
202	FM LPF BL-21H	4822 153 90036	401 /00	Ceramic filter 452 kHz	4822 242 70262
251-252	Choke coil 18 μ H	4822 156 20746	/22	Ceramic filter 460 kHz	4822 242 70261
301-302	FM LPF BL-21E	4822 153 90035	/15/28/29	Ceramic filter 468 kHz	4822 242 70263
401	AM RF coil 129B	4822 156 30586			
402	AM osc. coil 416L	4822 156 30587			
403	AM IFT 407A	4822 153 10313			
404	AM IFT 407B	4822 153 10314			
451	AM Antenna coil	4822 158 60407			
452	Choke coil 0.8 μ H	4822 157 40147			

					
901a-b	2SC2089	4822 130 41177	801	Choke coil 33 μ H	4822 156 20745
902a-b	2SA942	4822 130 41176			
903a-b	2SC2089	4822 130 41177	801÷803	• 2SC945 = BC547	4822 130 44257
904a-b	2SA942	4822 130 41176	804-805	• 2SD438	4822 130 41139
MICRO INPUT PRINT			806	• 2SC945 = BC547	4822 130 44257
			807	• 2SA733 = BC557	4822 130 44256
751	Elco lo-leak 4.7 μ F-25 V	5322 124 10014	808	• 2SB560 = BC640	4822 130 41078
758	Mylar cap. 3900 pF	5322 121 54127	809	• 2SD325 = BD203	5322 130 44325
759	Elco lo-leak 1 μ F-50 V	4822 124 20658			
			801	W03C = BY126	4822 130 41119
770	Micro volume 50K	4822 101 30351	802	RD13E = BZX79/B13	4822 130 34195
					
751	2SC2089	4822 130 41177	C801	Elco BP 33 μ F-16 V	4822 124 20656
752	2SA942	4822 130 41176	POWER UNIT		
753	2SC2089	4822 130 41177			
LF DRIVE UNIT					
			807	Elco bi-polar 33 μ F-16 V	4822 124 20665
602	Elco 2.2 μ F-50 V	4822 124 20584			
603	Elco 10 μ F-35 V	4822 124 20655	806	Carbon res. 16 k Ω -1/4 W	5322 116 50593
606	Elco 100 μ F-63 V	5322 124 24143	817	Carbon res. 20 k Ω - 1/4 W	5322 116 54642
					
612	Safety res. 6.8K - 1/4 W	4822 111 30468	801÷803	• 2SC945 = BC547	4822 130 44257
631	Trimpot. 1 k Ω	4822 100 10208	804-805	• 2SD438	4822 130 44139
			806	• 2SC945 = BC547	4822 130 44257
601	2SA726	4822 130 41135	807	• 2SA733 = BC557	4822 130 44256
602	2SC2363	4822 130 41138	808	• 2SB560 = BC640	4822 130 41078
603	• 2SD600 = BD139	4822 130 40823	809	• 2SD325 = BD203	5322 130 44325
604	• 2SC945 = BC547	4822 130 44257			
605	• 2SA733 = BC557	4822 130 44256	801	WO-3B = BY126	4822 130 41119
606	• 2SB631 = BD140	4822 130 40824	802	RD13E = BZX79/B13	4822 130 34195
607					
			-Miscellaneous-		
602	1S2075	4822 130 31026	R001a-b	Wire wound res. 470 Ω -2W	5322 116 54402
603			R681a-b	Carbon res. 7.5 k Ω	4822 110 60131
LF OUTPUT + POWER PRINT			R682a-b	Carbon res. 1.1 k Ω	5322 116 54554
			D351	Led stereo GL-30PG	4822 130 30976
806	Carbon res. 16K - 1/4 W	5322 116 50593	F001	Fuse 2A slow	4822 253 30025
803	Wire wound res. 470 Ω -1 W	4822 116 51105	F002,003	Fuse 6.3A slow	4822 253 30031
817	Carbon res. 20K - 1/4 W	5322 116 54642	F004,005	Fuse 100 mA slow	4822 253 30006
			F006	Fuse 1.6A slow	4822 253 30024
				Thermal switch	4822 282 40158
				Reed relay	4822 280 20067
				Fuse holder for PCB	4822 256 30154
				PCB aids	4822 466 10254
				PCB aids	4822 466 10255

• Watch the connections of E-B-C

• Voir les connexions de E-B-C